

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

LIST OF REFERENCES CITED BY APPLICANT

APPLICANT
J.F.T. CONROY, M.E. POWER, and P.M. NORRIS

FILING DATE
HEREWITH

U.S. PATENT DOCUMENTS
NAME

SHEET 1 OF 1
NEW APPLICATION
PTO

GROUP
UNKNOWN

FILING DATE
IF APPROPRIATE

EXAMINER INITIAL	DOCUMENT NUMBER
AA	5,895,757
AB	5,739,020
AC	5,683,513
AD	4,148,689

DATE	NAME
4/20/1999	E. J. A. Pope
4/14/1998	E. J. A. Pope
12/2/1997	E. J. A. Pope
4/10/1979	T. Hino et al.

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

CLASS	SUB CLASS
435	176
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435	176
435	176

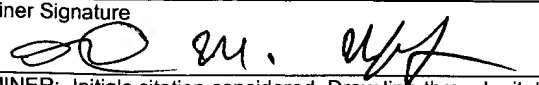
AE	V.M. Sglavo, G. Caruran, R. Dal Monte, and M. Muraca, "SiO2 Entrapment of Animal Cells," J. Mat. Sci. 34, 3587-3590 (1999).
AF	G. Caruran, R. Campostini, S. Dire, A. Scardi, and E. De Allenius, "Inorganic Gels for Immobilization of Biocatalysis: Inclusion of Invertase-active Whole Cells of Yeast..." J. Mol. Catal. 57, L13-L16 (1986).
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AH	R. Campostini, G. Caruran, R. Caniato, A. Piovani, R. Filippini, G. Innocenti, and E.M. Cappelletti, "Immobilization of Plant Cells in Hybrid Sol-Gel Materials," J. Sol-Gel Sci. Technol. 7, 87-97 (1995).
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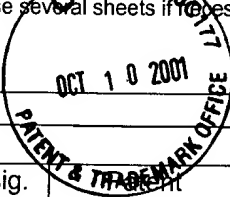
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Substitute Form PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office		Application No. 09/785,188	
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))				Applicant J. F. T. CONROY, M.E. POWER, and P. M. NORRIS	
				Filing Date 02/20/2001	
Group Art Unit UNKNOWN					
U.S. Patent Documents					
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class
am	EA	5,207,814	5/4/1993	Cogliati et al.	65 18.3

Other Documents (include Author, Title, Date, and Place of Publication)		
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am	EB	M. Al-Saraj, M.S. Abdel-Latif, I. El- Nahal, and R. Baraka, "Bioaccumulation of Some Hazardous Metals by Sol-Gel Entrapped Microorganisms," J. Non- Cryst. Sol. Vol. 248, p. 137-140 (1999).
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am	EE	S.-B. Cho, K. Nakanishi, T. Kokubo, N. Soga, C. Ohtsuki, and T. Nakamura, "Apatite Formation on Silica gel in Simulated Body Fluid: Its Dependence on Structures of Silica Gels Prepared in Different Media," J. Biomed. Mat. Res. (Applied Biomater) Vol. 33, p. 145-151 (1996).
am	EF	J.F.T. Conroy, M.E. Power, J. Martin, B. Earp, B. Hosticka, C. Daitch, and P.M. Norris, "Cells in Sol-Gels I: A High Hydrolysis Ratio, Aqueous Route for the Production of Macroporous Cytocompatible Silica Gels," J. Sol-Gel Sci. Tech. Vol. 18, p. 269-283 (2000).
am	EG	B. C. Dave, B. Dunn, J. S. Valentine, and J. I. Zink, "Sol-Gel Encapsulation Methods for Biosensors," Anal. Chem. Vol. 66, p. 1120A-1127A (1994).
am	EH	L.L. Hench, "Environmental Effects in Gel Derived Silicates," in <i>Better Ceramics Through Chemistry: MRS Symp. Proc.</i> ; Brinker, C. J., Clark, D. E., Ulrich, D. R., Eds.; (North-Holland, New York, 1984) Vol. 32, p. 101-111.
am	EI	L.L. Hench, G. Ortel, and J.L. Nogues, "The Role of Chemical Additives in Sol-Gel Processing," in <i>Better Ceramics Through Chemistry: MRS Symp. Proc.</i> ; Brinker, C. J., Clark, D. E., Ulrich, D. R., Eds.; (North-Holland, New York, 1986) Vol. 73, p. 35-47.
am	EJ	L.C. Klein and G.J. Garvey, "Effect of Water on Acid- and Base-Catalyzed Hydrolysis of Tetraethylorthosilicate (TEOS)," in <i>Better Ceramics Through Chemistry: MRS Symp. Proc.</i> ; Brinker, C. J., Clark, D. E., Ulrich, D. R., Eds.; (North-Holland, New York, 1984) Vol. 32, p. 33-39.
am	EK	K. Tadanaga, K. Iwashita, T. Minami, and N. Tohge, "Coating and Water Permeation Properties of SiO ₂ Thin Films Prepared by the Sol-Gel Method on Nylon-6 Substrates," J. Sol-Gel Sci. Tech. Vol. 6, p. 107-111 (1996).
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Filing Date 02/20/2001		Group Art Unit UNKNOWN



U.S. Patent Documents

Examiner Initial	Desig. ID	Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
gm	AA	3,941,719	3/2/1976	B. E. Yoldas	252	463	
gm	AB	3,944,658	3/16/1976	B. E. Yoldas	423	827	
gm	AC	3,948,806	4/6/1975	Witt	252	451	
gm	AD	4,243,692	1/6/1981	Scholze et al.	427	2	
gm	AE	4,461,832	7/24/1984	Tschang et al.	435	178	
gm	AF	4,814,017	3/21/1989	B. E. Yoldas et al.	106	712	
gm	AG	4,897,468	1/30/1990	Oka et al.	530	816	
gm	AH	5,009,688	4/23/1991	Nakanishi	65	1813	
gm	AI	5,624,875	4/29/1997	Nakanishi et al.	501	39	
gm	AJ	5,650,311	7/22/1997	Avnir et al.	435	176	
gm	AK	5,746,992	5/5/1998	B. E. Yoldas et al.	423	388	
gm	AL	5,824,526	10/20/1998	Avnir et al.	435	178	
gm	AM	5,874,109	2/23/1999	P. Ducheyne et al.	424	486	
gm	AN	6,207,098 B1	3/27/2001	Nakanishi et al.	264	414	
gm	AO	6,210,570 B1	4/3/2001	Holloway	210	1982	

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Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation
							Yes No

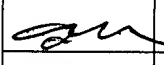
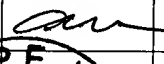
Other Documents (include Author, Title, Date, and Place of Publication)

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gm	AP	J. J. Kennedy, "Facile Methods for the Immobilization of Microbial Cells without Disruption of their Life Processes" in Immobilized Microbial Cells, (K. Venkatsubramanian, ed.) ACS Symposium Series 106, Am. Chem. Soc., Washington, D.C. (1979)
gm	AQ	E. J. A. Pope, K. Braun, M. Van Hirtum, C. M. Peterson, P. Tresco, and J. D. Andrade, "Living Ceramics" in Sol-Gel Science and Technology, (E. J. A. Pope, S. Sakka, and L. Klein, eds.), Am. Ceramic Soc., Westerville, Ohio (1995).
gm	AR	E. J. A. Pope, "Living Ceramic Gels for Bioartificial Organs" in Bioceramics: Materials and Applications II, (R. P. Rusin and G. S. Fischman, eds.), Ceramic Transactions Vol. 63, Am. Ceramic Soc., Westerville, Ohio (1996)

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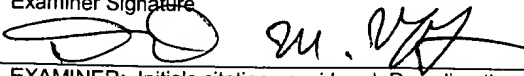
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	AS	E. J. A. Pope, K. Braun, and C. M. Peterson, "Bioartificial Organs I: Silica Gel Encapsulated Pancreatic Islets for the Treatment of Diabetes Mellitus," J. Sol-Gel Sci. Tech. 8, 635-639 (1997)			
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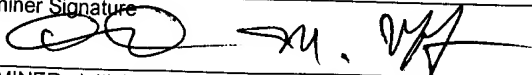
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		Filing Date 02/20/2001
		Group Art Unit UNKNOWN

U.S. Patent Documents							
Examiner Initial	Design ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
om	BA	5,409,683	4/25/1995	Tillotson et al.	423	338	RECEIVED OCT 17 2001 TECH CENTER 1600/2900
an	BB	5,998,162	12/7/1999	Cappelletti et al.	435	41	
om	BC	6,214,593	4/10/2001	Carturan et al.	435	178	
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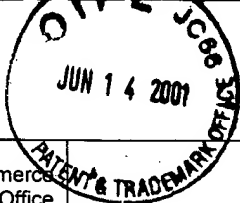
Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Design ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Design ID	Document
om	BE	M Altstein, G. Segev, N. Aharonson, O. Ben-Aziz, A. Turniansky, and D. Avnir, "Sol-Gel Entrapped Cholinesterases: A Microtiter Plate Method for Monitoring Anti-Cholinesterase Compounds," J. Agric. Food Chem. 46, 3318-3324 (1998).
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				Filing Date 02/20/2001	
<i>an</i>	BO	H. Minakuchi, K. Nakanishi, N. Soga, N. Ishizuka, and N. Tanaka, "Octadecylsilylated Porous Silica Rods as Separation Media for Reversed-Phase Liquid Chromatography," Anal. Chem. 68, 3498-3501 (1996).			
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<i>an</i>	BR	C. Rottman, G. Grader, Y. De Hazan, S. Melchior, and D. Avnir, "Surfactant-Induced Modification of Dopants Reactivity in Sol-Gel Matrices," J. Am. Chem. Soc. 121, 8533-8543 (1999).			
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<i>an</i>	BT	B. Unger, H. Jancke, M. Haehnert, and H. Stade, "The Early Stages of the Sol-Gel Processing of TEOS," J. Sol-Gel Sci. Tech. 2, 51-56 (1994).			
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<i>qu</i>	AA	3,948,806	4/6/1975	Witt	252	451	
<i>qu</i>	AB	4,243,692	1/6/1981	Scholze et al.	427	2	
<i>qu</i>	AC	4,461,832	7/24/1984	Tschang et al.	435	174	
<i>qu</i>	AD	4,897,468	1/30/1990	Oka et al.	534	811	
<i>qu</i>	AE	5,009,688	4/23/1991	Nakanishi	45	18.3	
<i>qu</i>	AF	5,624,875	4/29/1997	Nakanishi et al.	501	39	
<i>qu</i>	AG	5,650,311	7/22/1997	Avnir et.al.	435	174	
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<i>qu</i>	AJ	6,210,570 B1	4/3/2001	Holloway	210	198.2	

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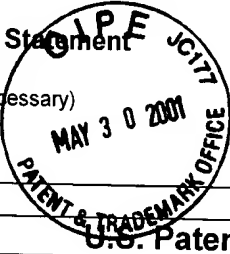
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om	AF	5,874,109	2/23/1999	P. Ducheyne et al.	424	484	
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om	AK	E. J. A. Pope, K. Braun, and C. M. Peterson, "Bioartificial Organs I: Silica Gel Encapsulated Pancreatic Islets for the Treatment of Diabetes Mellitus," J. Sol-Gel Sci. Tech. 8, 635-639 (1997)
om	AL	K. P. Peterson, C. M. Peterson, and E. J. A. Pope, "Silica Sol-Gel Encapsulation of Pancreatic Islets," Proc. Soc. Exp. Biol. Med. 218:, 365-369 (1998)
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om	AO	J. J. Kennedy, "Facile Methods for the Immobilization of Microbial Cells without Disruption of their Life Processes" in Immobilized Microbial Cells, (K. Venkatsubramanian, ed.) ACS Symposium Series 106, Am. Chem. Soc., Washington, D.C. (1979)

Examiner Signature 	Date Considered 10/11/02
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	